

DEPEND ON  
**DAVEY**

**WATER PRODUCTS**

# Installation and Operating Instructions

## Compact Series Underwater Pool Lights



Please pass these instructions on to the operator of this equipment.

E-mail: [sales@davey.com.au](mailto:sales@davey.com.au)  
Website: [davey.com.au](http://davey.com.au)



# Compact Series

## Underwater Pool Lights

### Technical Specifications

Type	Volts	Watts	Depth (mm)	Diam. (mm)
C100	28	150	65	230
C150	12	100		

**NOTE:** This underwater light is not intended for use by young children or infirm persons without supervision. Please ensure that young children are supervised to ensure that they do not play with the light

### Installation Instructions

This light is designed to operate as a water cooled unit, and, as such, the flow of water behind the light assembly must not be obstructed. Under no circumstances should the light be turned on unless completely submerged in water.

Electrical connections, positioning of junction boxes and transformers, must be in accordance with current Australian Standards AS3000 code, covering swimming pool installations.

It is our recommendation that no interim connections should be made between the light and its normal connection to that of the transformer, but rather the installer should fit a Compact Series light with a longer lead. Compact Series Underwater Pool Lights are supplied with varying lead lengths up to a maximum of 12m for 12 volt and 24m for 28v DC, so as to suit every installation.

Care should also be taken during backfilling of the pool to ensure that conduit lines are not crushed which could cause the electrical lead sheath to be cut and allow moisture entry. Damage to the light through this circumstance will void the warranty.

**NOTE:** POWER CONNECTIONS AND WIRING MUST BE CARRIED OUT BY AN AUTHORISED ELECTRICIAN

**IMPORTANT:** If the supply cord is damaged, it must be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid a hazard.

### Positioning

When positioning the light, its ability to be easily accessed and serviced should be taken into consideration. The light is designed with this purpose in mind. As such, locate the light where it can be brought up to the top of the coping at poolside, without the need to lower the water-level, enter the pool, or cut the lead.

The centre line of the light should be located approximately 30cm (12") to 45cm (18") below the normal water level of the pool. It is important that the pool wall, immediately surrounding the light, be flat and vertical to a diameter of 25cm (10").

The wall ring should be positioned against the unfinished pool wall, with the marking “**TOP**” in the 12 o’clock position. **The finished wall must lay level with the front face of the wall ring to a diameter of 25cm (10”).**

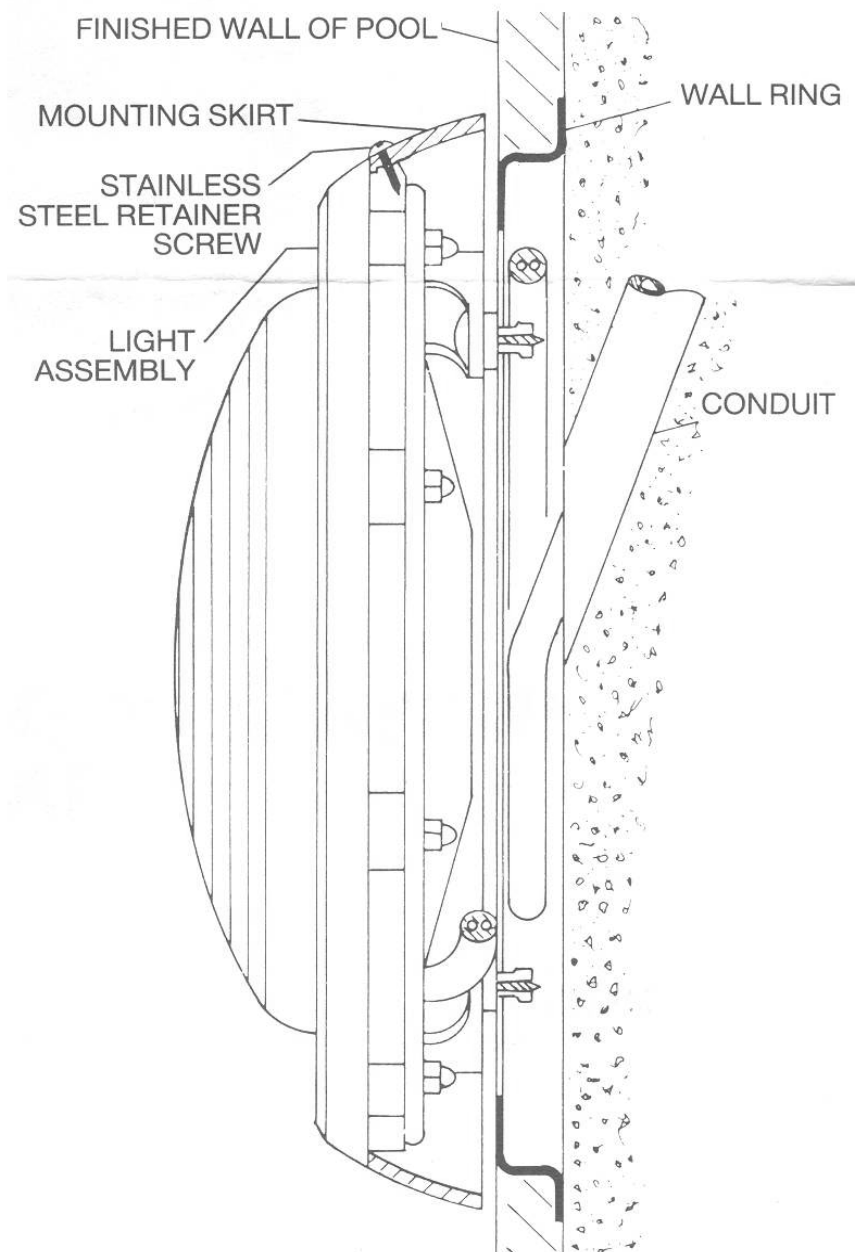
The mounting skirt ring is then screwed to the wall ring with the front lug at the 6 o’clock position.

Feed the cable through the conduit, retaining sufficient free cable behind the light assembly to facilitate future service above water level. Normally 1.2 metres (4ft) is sufficient. This extra cable is secured by the retaining brackets at the rear of the light.

On concrete pool installations it is recommended that once sufficient lead has been allowed for servicing, the installer apply silicone into the conduit around the lead, to prevent, where possible, the water from tracking along the conduit.

The light assembly is then located on the bottom lug of the mounting skirt ring and clipped into the corresponding slot at the top of the mounting skirt and secured by a stainless steel screw.

### Diagram of Below Ground Concrete Pool Installation



## Fibreglass & Above Ground Pool Installations

For Compact Series Underwater Pool Light installations in fibreglass or above ground pool installations, a light adaptor kit is required as shown below.

Pool Type	Adaptor Kit Model #
Fibreglass	MS7061100
Above Ground Vinyl	MS7061200

## Pool Light Operation

**WARNING:** DO NOT operate the underwater light unless the unit is completely submerged in water, otherwise damage will result and warranty voided.

Be sure on completion of the installation that your electrician checks all electrical connections. Your electrician should also check and verify the voltage supply on the primary and secondary side of the transformer.

To ensure maximum performance and benefit from your new Compact Series Underwater light, we recommend that the light be used on a **regular basis**, i.e. a minimum usage of once a week. More frequent use will prevent “tracking”, thereby providing longer lamp life. To ensure a longer lamp life, do not operate the light for short periods.

## Maintenance

### Lamp Globe Replacement. –

Type	Globe Model Number	Volts
C100	MS2575400	12
C150	MS2575500	28-32

Unscrew the stainless steel screw at the top of the mounting skirt.

Insert screwdriver blade into the top slot and twist. Unit can then be removed by unwinding the cable from the special retaining brackets mounted on the rear of the light. Remove rear reflector plate and unscrew old lamp.

**NOTE:** Care should be taken when fitting new lamp to avoid direct hand contact with the glass component. If accidentally touched, clean with Methylated spirit before re-assembly.

Replace lamp, ensuring that the broad face of the filament faces outwards. If the unit has been in service for more than 12 months we recommend that the lens “O” ring seal should also be replaced when replacing the globe.

Replace the reflector plate making certain that the lamp is in a vertical position relative to the lens and top of the face ring.

Replace nuts on screws and tension until finger tight. Final tensioning is on a diagonally opposite method to ensure even pressure. **DO NOT** over tighten. The return edge on the reflector plate should just contact the bosses on the rear of the face ring.

### **Coloured clip on lens replacement -**

Your coloured clip on lens can be easily changed without the need to bring the light to the surface.

By pushing down and squeezing in at the same time at the top of the light, will release the lens and then simply twist the bottom to release the bottom clip. The new colour lens should be located in the bottom clip, and then push the top clips into position.

**NOTE:** Davey recommends that the light be inspected and maintained annually for maximum performance and life span.

The light and lens “O” ring in particular are designed as a dry sealing unit. Therefore the use of sealing agent/compound is not necessary. Under no circumstances should petroleum based agent be used, e.g. Vaseline, as this will deteriorate the O ring. If an agent is to be used then a silicone based material is recommended, e.g. Silicone spray.

### **Coloured Clip On Lens Replacements**

<b>Colour</b>	<b>Model #</b>
MS4600670	Blue
MS4600671	Red
MS4600672	Green
MS4600673	Amber

# Davey® Repair or Replacement Guarantee

In the unlikely event in Australia or New Zealand that this Davey product develops any malfunction within warranty periods beginning from the date of original purchase due to faulty materials or manufacture, Davey will at our option repair or replace it for you free of charge, subject to the conditions below.

## Davey Guarantee Period

Light - One Year

Light Globe - Sixty days only

Should you experience any difficulties with your Davey product, we suggest in the first instance that you contact the Davey Dealer from which you purchased the Davey product. Alternatively you can phone our Customer Service line on 1300 367 866 in Australia, or 0800 654 333 in New Zealand, or send a written letter to Davey at the address listed below. On receipt of your claim, Davey will seek to resolve your difficulties or, if the product is faulty or defective, advise you on how to have your Davey product repaired, obtain a replacement or a refund.

Your Davey Guarantee naturally does not cover normal wear or tear, replacement of product consumables (i.e. mechanical seals, bearings or capacitors), loss or damage resulting from misuse or negligent handling, improper use for which the product was not designed or advertised, failure to properly follow the provided installation and operating instructions, failure to carry out maintenance, corrosive or abrasive water or other liquid, lightning or high voltage spikes, or unauthorized persons attempting repairs. Where applicable, your Davey product must only be connected to the voltage shown on the nameplate.

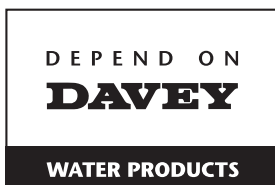
Your Davey Guarantee does not cover freight or any other costs incurred in making a claim. Please retain your receipt as proof of purchase; you **MUST** provide evidence of the date of original purchase when claiming under the Davey Guarantee.

Davey shall not be liable for any loss of profits or any consequential, indirect or special loss, damage or injury of any kind whatsoever arising directly or indirectly from Davey products. This limitation does not apply to any liability of Davey for failure to comply with a consumer guarantee applicable to your Davey product under the Australian or New Zealand legislation and does not affect any rights or remedies that may be available to you under the Australian or New Zealand Consumer Legislation.

In Australia, you are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

Should your Davey product require repair or service after the guarantee period; contact your nearest Davey Dealer or phone the Davey Customer Service Centre on the number listed below.

For a complete list of Davey Dealers visit our website ([davey.com.au](http://davey.com.au)) or call:



Davey Water Products Pty Ltd  
Member of the GUD Group  
ABN 18 066 327 517

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### AUSTRALIA

**Customer Service Centre**  
6 Lakeview Drive,  
Scoresby, Australia 3179  
Ph: 1300 367 866  
Fax: 1300 369 119  
Website: [davey.com.au](http://davey.com.au)

### NEW ZEALAND

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Penrose, Auckland 1061  
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Fax: 09 527 7654  
Website: [daveynz.co.nz](http://daveynz.co.nz)

P/N MS2250200-3 supersedes P/N MS2250200-2

\* Installation and operating instructions are included with the product when purchased new.  
They may also be found on our website.

